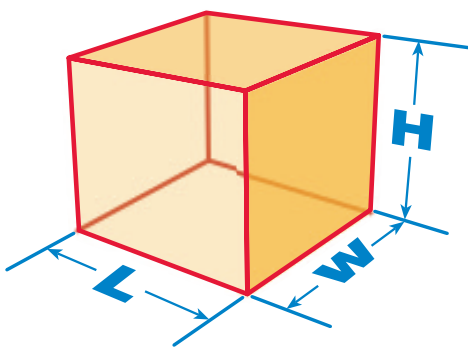


REFERENCE INFORMATION

HOW MUCH HEAT DO YOU NEED?  
You can calculate the amount of BTUs required by using the following method:



DESIRED INSIDE TEMPERATURE  
- OUTSIDE TEMPERATURE  
= TEMPERATURE INCREASE

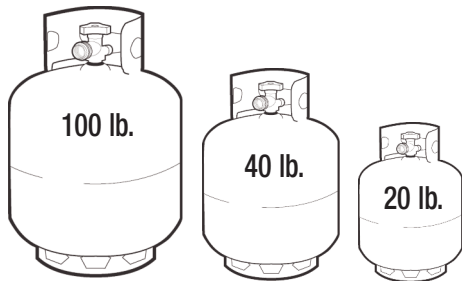
- 1. Measure the space's dimension to determine cubic feet.  
(Length x Width x Height = Cubic Feet)
- 2. Subtract the outside temperature from the desired inside temperature to determine the temperature increase.
- 3a. If you have measured temperature in FAHRENHEIT, calculate the required BTUs with this formula:  
(Cubic Feet x Temperature Increase x .133 = Required BTUs)
- 3b. If you have measured temperature in CELSIUS, calculate the required BTUs with this formula:  
(Cubic Feet x Temperature Increase x .2394 = Required BTUs)

HEAT RISE - 'BTU' REQUIREMENT REFERENCE CHART

SELECT CUBIC FEET SIZE OF WORK AREA OR L x W x H	CUBIC FEET	HEATER BY 'BTU' REQUIRED: K = ,000					
	25,000	60K	90K	120K	150K	180K	240K
	20,000	48K	72K	96K	120K	144K	192K
	15,000	36K	54K	72K	90K	108K	144K
	10,000	24K	36K	48K	60K	72K	96K
	7,500	18K	27K	36K	45K	54K	72K
	5,000	12K	18K	24K	30K	36K	48K
	2,500	6K	9K	12K	15K	18K	24K
	DESIRED TEMPERATURE RISE BETWEEN OUTSIDE & INSIDE						
	CELSIUS	10°C	15°C	20°C	25°C	30°C	40°C
FAHRENHEIT	18°F	27°F	36°F	45°F	54°F	72°F	

NOTE: Estimated heating areas information included in this brochure assumes the area to be heated has a 10 ft. ceiling.

PROPANE/LP VAPORIZATION RATE  
(Per 100 lb. Propane Cylinder)



PROPANE HEATER CYLINDER SELECTION CHART

Pounds of Propane in Cylinder	Maximum Continuous BTU Output Per Hour at Various Temperatures		
	0°F	20°F	40°F
100	113,000	167,000	214,000
90	104,000	152,000	200,000
80	94,000	137,000	180,000
70	83,000	122,000	160,000
60	75,000	109,000	140,000
50	64,000	94,000	125,000
40	55,000	79,000	105,000
30	45,000	66,000	85,000
20	36,000	51,000	69,000
10	28,000	38,000	49,000

ABOUT ENERCO

Headquartered in Cleveland, Ohio, Enerco manufactures a complete line of heating products for commercial, industrial, home and shop applications.

Products include propane and kerosene forced air heaters, radiant and convection construction heaters, garage and shop heaters, low and high intensity custom designed overhead heating systems, and custom designed systems for industrial applications.

PHONE: 800-251-0001  
FAX: 800-321-0552  
www.heatstarbyenerco.com



CONSTRUCTION HEATERS

Workin'  
Warm.  
Workin'  
Tough.



HEATER SIZING  
GUIDE ON  
BACK COVER

Temporary Heat For:

- Construction Sites
- Workshops
- Industrial/Commercial Workspaces
- Emergencies
- Remodeling Jobs

Rugged, Convenient And Ready To Use.



THE ONLY HEAVY DUTY KEROSENE  
HEATER BUILT FOR THE JOB SITE

Small Worksites

<b>HS50K</b>	F170250	<b>50,000 BTU/HR</b> Heats approximately 1,200 square feet.
<b>HS75KT</b>	F170275	<b>75,000 BTU/HR</b> Heats approximately 1,750 square feet.

**STANDARD FEATURES:**  
Heavy Construction  
Illuminated On-Off Switch  
Enclosed Motor  
Fuel Gauge  
Cord Wrap (HS75KT only)  
High Output Fan  
Larger "Glove-Friendly" Controls



Large Jobsites

<b>HS125KT</b>	F170325	<b>125,000 BTU/HR</b> Heats approximately 3,000 square feet.
<b>HS175KT</b>	F170375	<b>175,000 BTU/HR</b> Heats approximately 4,250 square feet.
<b>HS210KT</b>	F170380	<b>210,000 BTU/HR</b> Heats approximately 6,000 square feet.

**STANDARD FEATURES:**  
Heavy Construction  
Illuminated On-Off Switch  
Enclosed Motor  
Large Heavy-Duty Handles  
Cord Wrap  
Fuel Gauge  
10" Pneumatic Tires  
High Output Fan  
Larger "Glove-Friendly" Controls



Big Projects

<b>HS3500DF</b>	F151089	<b>360,000 BTU/HR</b> Heats from 9,400 to 75,000 square feet of space.
<b>HS6000DF</b>	F151100	<b>610,000 BTU/HR</b> Heats from 14,250 to 114,000 square feet of space.

**STANDARD FEATURES:**  
Heavy Construction  
Built-In Oil Burner  
Electronic Flame Control System  
Stainless Steel Heat Exchanger  
High Output Fan  
Pre-Heated Oil Filter (HS6000DF only)  
Pre-Purge And Ventilation Cycles  
Optional Remote Thermostat



SPECIFICATIONS:	HS50K	HS75KT	HS125KT	HS175KT	HS210KT	HS3500DF	HS6000DF
Stock Number	F170250	F170275	F170325	F170375	F170380	F151089	F151100
Output (BTU/HR)	50,000	75,000	125,000	175,000	210,000	360,000	610,000
Heating Area (SQ. FT.)	1,200	1,750	3,000	4,250	6,000	9,400 / 75,000	14,250 / 114,000
CFM Output	165	240	275	400	1,800	2,800	2,800
Fuel Consumption (GAL/HR - L/HR)	.38 / 1.43	.56 / 2.11	.77 / 2.91	1.15 / 4.35	1.60 / 6.05	2.75 / 10.41	4.4 / 16.65
Tank Capacity (GAL - L)	4 / 15	6 / 22	14 / 52	14 / 52	14 / 52	27.7 / 104	35.6 / 134
Flame Safety/Overheat Safety Shutoff	✓	✓	✓	✓	✓	✓	✓
Continuous Ignition	✓	✓	✓	✓	✓	✓	✓
Power Required: 110-115 V 60Hz	✓	✓	✓	✓	✓	✓	✓
Tires/Wheels	NA	NA	10" Pneumatic	10" Pneumatic	10" Pneumatic	10" Pneumatic	10" Pneumatic
Operating Hours On Full Tank	11	11	15	10	8	9.5	8.6
Shipping Size (L x W x H)	32" x 14" x 14.5"	32" x 14.25" x 17"	42" x 18" x 22"	42" x 18" x 22"	42" x 18" x 22"	66" x 27" x 39"	76" x 27" x 39"
Shipping Weight	43 lbs.	43 lbs.	74 lbs.	81 lbs.	87 lbs.	227 lbs.	247 lbs.
Multi-Fuel (No. 1 Or No. 2 Diesel Oil, Kerosene, JP-8 Or Jet A)	✓	✓	✓	✓	✓	✓	✓
Optional Remote Thermostat	NA	NA	NA	NA	NA	F150035	F150035

Large Jobsites

<b>HS1000ID</b>	F151010	<b>110,000 BTU/HR</b>	Oil
<b>HS2000ID</b>	F151020	<b>205,000 BTU/HR</b>	Oil
<b>HS3000ID</b>	F151030	<b>300,000 BTU/HR</b>	Oil
<b>HS4000ID-HD</b>	F151040	<b>400,000 BTU/HR</b>	Oil With 2-Stage Burner
<b>HS4000IDG-HD</b>	F151092	<b>380,000 BTU/HR</b>	Dual-Fuel: Natural Gas / LP



**STANDARD FEATURES:**  
Powerful High-Static Pressure Fan  
Four Loop Heat Exchanger†  
Electronic Flame Control  
10" Pneumatic Tires  
Maximum Duct Length Up To 100 Ft.

Big Projects

<b>HS4000ID-XL</b>	F151070	<b>400,000 BTU/HR</b>	Multi-Fuel: Oil / Natural Gas / LP
<b>HS7000ID-XL</b>	F151080	<b>700,000 BTU/HR</b>	Multi-Fuel: Oil / Natural Gas / LP
<b>HS9000ID-XL</b>	F151095	<b>900,000 BTU/HR</b>	Multi-Fuel: Oil / Natural Gas / LP

**STANDARD FEATURES:**  
High CFM Centrifugal Blower  
Two Burner Options (LP / Natural Gas Or Oil)  
Overheat Limit Control  
Maximum Duct Length - 200 Ft.



SPECIFICATIONS:	HS1000ID	HS2000ID	HS3000ID	HS4000ID-HD	HS4000IDG-HD	HS4000ID-XL	HS7000ID-XL	HS9000ID-XL
Stock Number	F151010	F151020	F151030	F151040	F151092	F151070 (without Burner)	F151080 (without Burner)	F151095
LP/NG Burner	NA	NA	NA	NA	Included	F151073	F151086	F151096
Oil Burner	Included	Included	Included	Included	NA	F151077	F151088	F151097
Input (BTU/HR)	110,000	205,000	300,000	400,000	380,000	400,000	700,000	900,000
CFM Output	880	1,530	2,500	2,760	3,250	4,240	7,420	8,830
Operating Hours On Full Tank	12	11	12.5	15	NA	NA	NA	8.5 Oil
Oil Fuel Consumption (GAL/HR - L/R)	0.81 / 3.06	1.56 / 5.90	2.18 / 8.25	2.68 / 10.14	NA	3.00 / 11.35	5.25 / 19.87	6.46
LP Fuel Consumption (GAL/HR - L/R)	NA	NA	NA	NA	4.2 / 15.89	4.4 / 16.65	7.7 / 29.14	9.45/35.75
NG Fuel Consumption (CUBIC/FT)	NA	NA	NA	NA	380	400	700	900
Fuel Type	Oil	Oil	Oil	Oil	NG / LP	By Burner Type	By Burner Type	By Burner Type
Tank Capacity (GAL)	11.9	17.2	27.7	57	NA	30	42	55
Power Required	115V	115V	115V	115V	115V	220V & 115V	220V & 115V	220V & 115V
Duct Diameter	12"	14"	16"	20"	20"	20"	2-20"	2-20"
Max Length Of Duct	25	50	50	100	100	200	200	240
Shipping Size (L x W x H)	47" x 18" x 27"	59" x 21" x 42"	76" x 29" x 46"	70" x 29" x 50"	72" x 30" x 31"	63" x 25" x 43"	72" x 25" x 43"	120" x 39" x 60"
Shipping Weight (LBS)	94	176	264	330	306	480	730	877



Duct Adapter



Heat Duct Shown With Optional Duct Adapter



Dual Duct Adapter



Remote Thermostat



OPTIONAL ACCESSORIES:	HS1000ID	HS2000ID	HS3000ID	HS4000ID-HD	HS4000IDG-HD	HS4000ID-XL	HS7000ID-XL	HS9000ID-XL
Duct Adapter*	F151015	F151025	F151035	F151045	F151045	F151075 (1-20")	F151082 (2-20")	F151094 (2-20")
Dual Duct Adapter 2-12**	NA	NA	F151032	F151042	F151042	NA	NA	NA
Dual Duct Adapter 2-16**	NA	NA	NA	NA	NA	F151072	NA	F151098 (3-16")
Flexible Heat Duct (25FT.)	F150040 (12")	F150043 (14")	F150050 (16")	F151084 (20")	F151084 (20")	F150050 (16") F151084 (20")	F151084 (20")	F150050 (16") F151084 (20")
Remote Thermostat	F150035	F150035	F150035	F150035	F150035	F150035	F150035	F150035
Lift Bracket Kit	F150031	F150031	F150031	Included	Included	Included	Included	Included
External Tank Kit	F150032	F150032	F150032	F150032	NA	F150032	F150032	F150032
Oil Fuel Tank	Included	Included	Included	Included	NA	F150037	F150047	F151093
Heavy-Duty Frame And Wheel Kit	NA	NA	F150285	Included	Included	NA	NA	NA

\* Required for use with duct. † Four loop heat exchanger not available on HS1000ID.



Watch For NEW Innovative  
Products From HEATSTAR

Small Worksites

**HS35FA**  
35,000 BTU/HR  
F170035

Heats up to  
800 square feet.

Operates up to  
12 hours on a  
20 lb. tank.

**HS55FAV**  
30,000-55,000 BTU/HR  
F170055

Heats up to  
1,250 square feet.

Operates up to  
14 hours on a  
20 lb. tank.

**HS85FAV**  
50,000-85,000 BTU/HR  
F170085

Heats up to  
2,000 square feet.

Operates up to  
8 hours on a  
20 lb. tank.

**HS125FAV**  
75,000-125,000 BTU/HR  
F170125

Heats up to  
3,000 square feet.

Operates up to  
11 hours on a  
40 lb. tank.



Large Jobsites

**HS170FAVT**  
125,000-170,000 BTU/HR  
F170170

Heats up to  
4,000 square feet.

Operates up to  
17 hours on a  
100 lb. tank.

**HS170NG**  
150,000 BTU/HR  
F170180

Heats up to  
3,500 square feet.

Operates on  
natural gas.

**HS400FAVT**  
250,000-400,000 BTU/HR  
F172425

Heats up to  
9,000 square feet.

Operates up to  
17 hours on  
(2) 100 lb. tanks.



CSA Certified

Small Worksites

**HS80CV**  
30,000 - 80,000 BTU/HR  
F170480

Heats up to  
1,900 square feet.

Operates up  
to 14 hours on a  
20 lb. tank.

**HS80NG**  
60,000 BTU/HR  
F170485

Heats up to  
1,400 square feet.

Operates on  
natural gas.

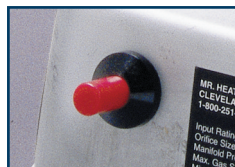
Large Jobsites

**HS200CV**  
75,000 - 200,000 BTU/HR  
F170600

Heats up to  
4,700 square feet.

Operates up  
to 29 hours on a  
100 lb. tank.

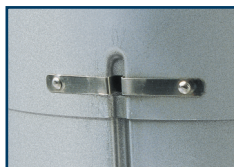
Special Features



Piezo Push Button Ignitor



Adjustable Heat Output



"Insta-Lock" System For Easy  
Assembly - No Tools.



CSA Certified



SPECIFICATIONS:

	HS35FA	HS55FAV	HS85FAV	HS125FAV	HS170FAVT	HS170NG	HS400FAVT
Stock Number	F170035	F170055	F170085	F170125	F170170	F170180	F172425
Output (BTU/HR)	35,000	30,000 - 55,000	50,000 - 85,000	75,000 - 125,000	125,000 - 170,000	150,000	250,000 - 400,000
Output CFM	100	300	300	350	450	450	1400
Fuel	Propane Gas	Propane Gas	Propane Gas	Propane Gas	Propane Gas	Natural Gas	Propane Gas
Min. LP Tank Size	20 lb.	20 lb.	20 lb.	40 lb.	100 lb.	NA	100 lb.
Propane Consumption (lbs/hr)	1.6	1.2 to 2.08	2.3 to 3.9	3.5 to 5.8	5.8 to 7.8	138 cub. ft. / hr.	11.5 to 18.5
Pressure Regulator Settings	10 PSI	28" W.C.	28" W.C.	28" W.C.	28" W.C.	4"	20 PSI
Adjustable Height Control	-	Yes	Yes	Yes	Yes	Yes	-
Flame Safety	Yes	Yes	Yes	Yes	Yes	Yes	Yes
High Temperature Limit Switch	240° F	240° F	240° F	240° F	240° F	240° F	240° F
Ignition	Piezo	Continuous	Continuous	Continuous	Automatic Solid State	Automatic Solid State	Automatic Solid State
Thermostat	-	-	-	-	Built-in	Built-in	Built-in
Power Required	115 V. 60 Hz 3a	115 V. 60 Hz 3a	115 V. 60 Hz 3a	115 V. 60 Hz 3a	115 V. 60 4a	115 V. 60 4a	115 V. 60 4a
Propane Hose-20ft.	1/4" I.D. w/ Regulator and POL	3/8" I.D. w/ Regulator and POL	3/8" I.D. w/ Regulator and POL	3/8" I.D. w/ Regulator and POL	3/8" I.D. w/ Regulator and POL	NA	1/4" I.D. w/ Regulator and POL
POL/Excess Flow Check Valve	Yes	Yes	Yes	Yes	Yes	NA	Yes
Shipping Size (L x W x H)	19" x 11.5" x 14"	18.5" x 11.5" x 14"	21" x 11.5" x 16"	20.25" x 12" x 15.5"	26.5" x 11.5" x 16.75"	26.5" x 11.5" x 16.75"	38.58" x 15" x 22.25"
Net Weight (Includes Hose / Regulator / POL Assembly)	15 lbs.	16 lbs.	18 lbs.	23 lbs.	32 lbs.	32 lbs.	47 lbs.
Shipping Weight	17 lbs.	20 lbs.	20 lbs.	25 lbs.	34 lbs.	34 lbs.	51 lbs.
Shipping Cube	1.8'	1.7'	2.2'	2.7'	3.0'	3.0'	7.5'

SPECIFICATIONS:

	HS80CV	HS80NG	HS200CV
Stock Number	F170480	F170485	F170600
Output (BTU/HR)	30,000 - 80,000	60,000	75,000 - 200,000
Fuel	Propane Gas	Natural Gas	Propane Gas
Propane Consumption (lbs/hr)	1.4 to 3.7	-	3.5 to 9.3
Pressure Regulator Settings	11" W.C.	6"	10 PSI
Flame Safety*	Thermocouple Operated Gas Valve	Thermocouple Operated Gas Valve	Thermocouple Operated Gas Valve
Standing Pilot	Yes	Yes	Yes
Ignition	Piezo	Piezo	Piezo
Power Required	None	None	None
Hose-20ft.	3/8" I.D. w/ Regulator and POL	NA w/ Natural Gas	1/4" I.D. w/ Regulator and POL
POL/Excess Flow Check Valve	Yes	NA w/ Natural Gas	Yes
Shipping Size (L x W x H)	15.25" x 18.25" x 21.75"	15.25" x 18.25" x 21.75"	18.25" x 15" x 27.5"
Net Weight (Includes Hose/ Regulator / POL Assembly)	19 lbs.	19 lbs.	25 lbs.
Shipping Weight	21 lbs.	21 lbs.	27 lbs.
Shipping Cube	3.50	3.50	4.36



Small Worksites

**HS35LP** F170700

**35,000 BTU/HR**  
Heats up to 800 square feet.  
Operates up to 12 hours  
on a 20 lb. tank.  
Tip-Over Switch  
Safety Shut-Off  
P.O.L. Connection  
20 Ft. Hose with Regulator  
Fully Assembled And Ready To Use



Large Jobsites

**HS125LP** F170800

**125,000 BTU/HR**  
Heats up to 3,000 square feet.  
Operates up to 17 hours  
on a 100 lb. tank.  
20 Ft. Hose with Regulator  
Welded Frame  
Heat Shield  
Safety Shut-Off



**HS125NG** F170850

**125,000 BTU/HR**  
Heats up to 3,000 square feet.  
Operates on Natural Gas.  
Welded Frame  
Heat Shield  
Safety Shut-Off



SPECIFICATIONS:	HS35LP	HS125LP	HS125NG
Stock Number	F170700	F170800	F170850
Output (BTU/HR)	35,000	125,000	125,000
Fuel	Propane	Propane	Natural Gas
Propane Consumption (LBS/HR)	1.6 max	5.8 max	N/A With Natural Gas
Pressure Regulator Settings	22" w.c.	13.5" w.c.	7" w.c.
Flame Safety	Thermocouple Operated Gas Valve	Thermocouple Operated Gas Valve	Thermocouple Operated Gas Valve
Ignition	Piezo	Piezo	Piezo
Power Required	None	None	None
Hose/Regulator	20' with Regulator	20' with Regulator	Regulator Only
P.O.L. / Excess Flow Check Valve	Yes	Yes	NA
Shipping Size (L x W x H)	12.4" x 10.24" x 34.25"	16.14" x 16.14" x 35.04"	16.14" x 16.14" x 35.04"
Shipping Weight (LBS)	25	42	42
Shipping Cube	1.85	4.24	4.24

Propane Radiant Heaters

**MH12T**  
Variable Output Of:  
8, 12 & 14,000 BTU/HR  
F273100

Hi-Medium-Low Regulator  
Safety shutoff  
Operates 30-52 hours  
on a 20 lb. tank.  
Connects to a  
20 lb. cylinder.



**MH24T**  
Variable Output Of:  
8, 12, 16, 24  
& 28,000 BTU/HR  
F273600

Two safety shutoffs  
Hi-Medium-Low Regulator  
Run one burner or two  
Operates 17-52 hours  
on a 20 lb. tank.  
Connects to a  
20 lb. cylinder.



Propane Radiant Heaters

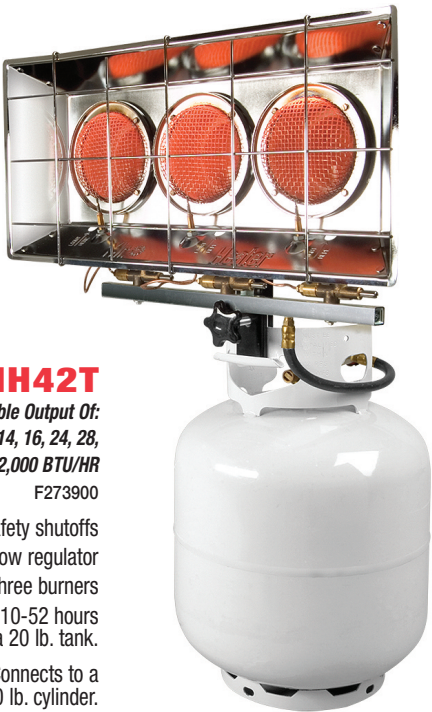
**TANKFOOT**  
F273169  
Fits 20 lb., 30 lb.  
and 40 lb. cylinders.

Reduces risk of  
tipping cylinder  
while transporting  
or on the job site.



**MH42T**  
Variable Output Of:  
8, 12, 14, 16, 24, 28,  
36 & 42,000 BTU/HR  
F273900

Three safety shutoffs  
Hi-Medium-Low regulator  
Run one, two or three burners  
Operates 10-52 hours  
on a 20 lb. tank.  
Connects to a  
20 lb. cylinder.



Tank Top Heaters shown are for USA only.  
Contact Enerco for Canadian Tank Top Heaters.